

Margherita Maiuri

List of Publications by Year in descending order

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69
papers

3,169
citations

331670

21
h-index

168389

53
g-index

72
all docs

72
docs citations

72
times ranked

4637
citing authors

#	ARTICLE	IF	CITATIONS
1	Hot exciton dissociation in polymer solar cells. <i>Nature Materials</i> , 2013, 12, 29-33.	27.5	567
2	Coherent ultrafast charge transfer in an organic photovoltaic blend. <i>Science</i> , 2014, 344, 1001-1005.	12.6	470
3	Real-time observation of ultrafast Rabi oscillations between excitons and plasmons in metal nanostructures with J-aggregates. <i>Nature Photonics</i> , 2013, 7, 128-132.	31.4	371
4	Quantum coherence controls the charge separation in a prototypical artificial light-harvesting system. <i>Nature Communications</i> , 2013, 4, 1602.	12.8	239
5	Ultrafast Spectroscopy: State of the Art and Open Challenges. <i>Journal of the American Chemical Society</i> , 2020, 142, 3-15.	13.7	183
6	The Nature of Singlet Exciton Fission in Carotenoid Aggregates. <i>Journal of the American Chemical Society</i> , 2015, 137, 5130-5139.	13.7	152
7	Tracking the coherent generation of polaron pairs in conjugated polymers. <i>Nature Communications</i> , 2016, 7, 13742.	12.8	149
8	Activated Singlet Exciton Fission in a Semiconducting Polymer. <i>Journal of the American Chemical Society</i> , 2013, 135, 12747-12754.	13.7	143
9	Interplay between Strong Coupling and Radiative Damping of Excitons and Surface Plasmon Polaritons in Hybrid Nanostructures. <i>ACS Nano</i> , 2014, 8, 1056-1064.	14.6	97
10	Coherent wavepackets in the Fenna-Matthews-Olson complex are robust to excitonic-structure perturbations caused by mutagenesis. <i>Nature Chemistry</i> , 2018, 10, 177-183.	13.6	93
11	Two-dimensional electronic spectroscopy with birefringent wedges. <i>Review of Scientific Instruments</i> , 2014, 85, 123107.	1.3	90
12	Transient optical symmetry breaking for ultrafast broadband dichroism in plasmonic metasurfaces. <i>Nature Photonics</i> , 2020, 14, 723-727.	31.4	48
13	Wavepacket Splitting and Two-Pathway Deactivation in the Photoexcited Visual Pigment Isorhodopsin. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 2504-2507.	13.8	45
14	Strongly Coupled Coherent Phonons in Single-Layer MoS ₂ . <i>ACS Nano</i> , 2020, 14, 5700-5710.	14.6	44
15	Ultrafast internal conversion in a low band gap polymer for photovoltaics: experimental and theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6367.	2.8	43
16	Solvent-dependent activation of intermediate excited states in the energy relaxation pathways of spheroidene. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6312.	2.8	31
17	Dissecting Interlayer Hole and Electron Transfer in Transition Metal Dichalcogenide Heterostructures via Two-Dimensional Electronic Spectroscopy. <i>Nano Letters</i> , 2021, 21, 4738-4743.	9.1	29
18	2D IR spectroscopy with phase-locked pulse pairs from a birefringent delay line. <i>Optics Express</i> , 2014, 22, 9063.	3.4	28

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19	Ultrafast Intramolecular Relaxation and Wave Packet Motion in a Ruthenium-Based Supramolecular Photocatalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 7668-7674.	3.3	24
20	Ultra-broadband 2D electronic spectroscopy of carotenoid-bacteriochlorophyll interactions in the LH1 complex of a purple bacterium. <i>Journal of Chemical Physics</i> , 2015, 142, 212433.	3.0	24
21	Explaining the Temperature Dependence of Spirilloxanthin's S* Signal by an Inhomogeneous Ground State Model. <i>Journal of Physical Chemistry A</i> , 2013, 117, 6303-6310.	2.5	22
22	Plasmonic control of drug release efficiency in agarose gel loaded with gold nanoparticle assemblies. <i>Nanophotonics</i> , 2020, 10, 247-257.	6.0	20
23	Ultrafast Energy Transfer and Excited State Coupling in an Artificial Photosynthetic Antenna. <i>Journal of Physical Chemistry B</i> , 2013, 117, 14183-14190.	2.6	18
24	High Magnetic Field Detunes Vibronic Resonances in Photosynthetic Light Harvesting. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5548-5554.	4.6	18
25	Ring currents modulate optoelectronic properties of aromatic chromophores at 25 T. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 11289-11298.	7.1	18
26	Vibrational Dephasing along the Reaction Coordinate of an Electron Transfer Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14511-14522.	13.7	18
27	Modulating the Electronic and Solid-State Structure of Organic Semiconductors by Site-Specific Substitution: The Case of Tetrafluoropentacenes. <i>Chemistry - A European Journal</i> , 2020, 26, 3420-3434.	3.3	16
28	Panchromatic Dye-Doped Polymer Solar Cells: From Femtosecond Energy Relays to Enhanced Photo-Response. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 442-447.	4.6	14
29	Utilizing Ancillary Ligands to Optimize the Photophysical Properties of 4-imidazole Ruthenium Dyes. <i>ChemPhysChem</i> , 2013, 14, 2973-2983.	2.1	13
30	Low frequency dynamics of the nitrogenase MoFe protein via femtosecond pump probe spectroscopy Observation of a candidate promoting vibration. <i>Journal of Inorganic Biochemistry</i> , 2015, 153, 128-135.	3.5	13
31	Ultrafast excited-state dynamics in land plants Photosystem I core and whole supercomplex under oxidised electron donor conditions. <i>Photosynthesis Research</i> , 2020, 144, 221-233.	2.9	12
32	Ultrafast Dynamics of Nonrigid Zinc-Porphyrin Arrays Mimicking the Photosynthetic Special Pair. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3443-3450.	4.6	11
33	Permanent Dipole Moments Enhance Electronic Coupling and Singlet Fission in Pentacene. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7453-7458.	4.6	9
34	Control of Protonated Schiff Base Excited State Decay within Visual Protein Mimics: A Unified Model for Retinal Chromophores. <i>Chemistry - A European Journal</i> , 2021, 27, 16389-16400.	3.3	9
35	Chemically-Controlled Ultrafast Photothermal Response in Plasmonic Nanostructured Assemblies. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6308-6317.	3.1	9
36	Singlet Heterofission in Tetracene-Pentacene Thin Film Blends. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19966-19973.	13.8	8

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37	Elementary Energy Transfer Pathways in <i>Allochromatium vinosum</i> Photosynthetic Membranes. <i>Biophysical Journal</i> , 2015, 109, 1885-1898.	0.5	7
38	Electronic Couplings in (Bio-) Chemical Processes. <i>Topics in Current Chemistry</i> , 2018, 376, 10.	5.8	7
39	Direct Evidence for Excitation Energy Transfer Limitations Imposed by Low-Energy Chlorophylls in Photosystem I Light Harvesting Complex I of Land Plants. <i>Journal of Physical Chemistry B</i> , 2021, 125, 3566-3573.	2.6	6
40	Magneto-Optical Stark Effect in Fe-Doped CdS Nanocrystals. <i>Nano Letters</i> , 2021, 21, 3798-3804.	9.1	6
41	In Silico Ultrafast Nonlinear Spectroscopy Meets Experiments: The Case of Perylene Bisimide Dye. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 7134-7145.	5.3	6
42	All-Optical Reconfiguration of Ultrafast Dichroism in Gold Metasurfaces. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	6
43	Solvent-dependent photo-induced dynamics in a non-rigidly linked zinc phthalocyanine-perylenediimide dyad probed using ultrafast spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21078-21089.	2.8	5
44	Binary small molecule organic nanoparticles exhibit both direct and diffusion-limited ultrafast charge transfer with NIR excitation. <i>Nanoscale</i> , 2019, 11, 2385-2392.	5.6	4
45	Roadmap on bio-nano-photonics. <i>Journal of Optics (United Kingdom)</i> , 2021, 23, 073001.	2.2	4
46	Real-time observation of ultrafast Rabi oscillations between excitons and plasmons in J-aggregate/metal hybrid nanostructures. , 2013, , .		3
47	Singlet Fission in Dideuterated Tetracene and Pentacene. <i>ChemPhotoChem</i> , 2021, 5, 758-763.	3.0	3
48	Ultrafast excited state dynamics in the monomeric and trimeric photosystem I core complex of <i>Spirulina platensis</i> probed by two-dimensional electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 164202.	3.0	3
49	2D Spectroscopy Helps Visualize the Influence of Spectral Motion on Chromophore Response. <i>CheM</i> , 2018, 4, 20-21.	11.7	2
50	Ultrafast electron-hole relaxation dynamics in CdS nanocrystals. <i>JPhys Materials</i> , 2021, 4, 034005.	4.2	2
51	Quantum coherence controls the charge separation in a prototypical artificial light harvesting system. , 2013, , .		1
52	Ultrafast Charge Separation in Low Band-Gap Polymer Blend for Photovoltaics. <i>EPJ Web of Conferences</i> , 2013, 41, 04010.	0.3	1
53	Electronic Couplings in (Bio-) Chemical Processes. <i>Topics in Current Chemistry Collections</i> , 2019, , 27-61.	0.5	1
54	Singlet Heterofission in Tetracene-Pentacene Thin-Film Blends. <i>Angewandte Chemie</i> , 2020, 132, 20141-20148.	2.0	1

#	ARTICLE	IF	CITATIONS
55	Coherent Spectroscopy of PDI-based Artificial Light-Harvesting Antenna. , 2016, , .		1
56	(INVITED) Design of symmetric nanoresonators to scale the ultrafast optical modulation in plasmonic metasurfaces. Optical Materials: X, 2021, 12, 100101.	0.8	1
57	Coherent vibronic coupling in a conjugated polymer at room temperature. , 2016, , .		1
58	Ultrafast hot exciton dissociation at organic interfaces. , 2013, , .		0
59	Coherent ultrafast charge transfer in an organic photovoltaic blend. , 2014, , .		0
60	Debuting in Research: The Vision of Two ENI Award Winners. Chemistry of Materials, 2016, 28, 409-410.	6.7	0
61	Coherent wavepackets in the Fenna-Matthews-Olson complex are robust to excitonic-structure perturbations caused by mutagenesis. EPJ Web of Conferences, 2019, 205, 10008.	0.3	0
62	How to Identify FRET in 2D Spectroscopy, an Answer from "Noise". Chem, 2019, 5, 1928-1929.	11.7	0
63	Frontispiece: Singlet Heterofission in Tetracene-Pentacene Thin-Film Blends. Angewandte Chemie - International Edition, 2020, 59, .	13.8	0
64	Frontispiz: Singlet Heterofission in Tetracene-Pentacene Thin-Film Blends. Angewandte Chemie, 2020, 132, .	2.0	0
65	Editorial: Vibrationally-Mediated Chemical Dynamics. Frontiers in Chemistry, 2021, 9, 681457.	3.6	0
66	Probing Coherent Ultrafast Exciton Dissociation in a Polymer:Fullerene Photovoltaic Absorber. , 2015, , .		0
67	Coherent ultrafast polaron pair formation in a conjugated polymer at room temperature. , 2016, , .		0
68	Sub-100 fs Hole Transfer Dynamics in WS ₂ /MoS ₂ Heterostructure Probed by Two-Dimensional Electronic Spectroscopy. , 2020, , .		0
69	Energy Transfer pathways in PSI-LHCI probed by Two-Dimensional Electronic Spectroscopy. , 2020, , .		0